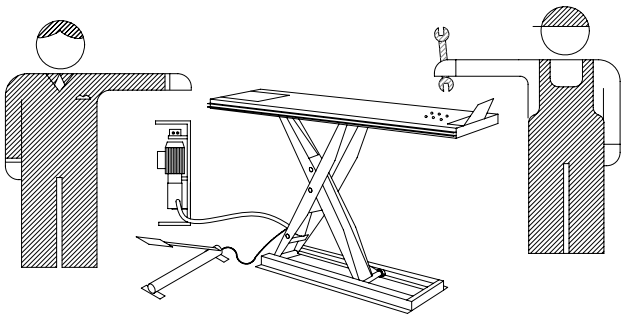

• Motorcycle lifts/lifting tables

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DECLARATION OF WARRANTY AND LIMITATION OF LIABILITY

The manufacturer has paid proper attention to the preparation of this manual. However, nothing contained herein modifies or alters, in any way, the terms and conditions of manufacturer agreement by which this lift was acquired, nor increases, in any way, the manufacture's liability to the customer.

TO THE READER

Every effort has been made to ensure that the information contained in this manual is correct, complete and up-to date. The manufacturer is not liable for any mistakes made when drawing up this manual and reserves the right to make any changes due the development of the product, at any time.

February 2012

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1. INTRODUCTION

CAUTION

This manual is intended for factory personnel who are going to operate or install the lift; read the manual before you use the platform in any way or perform any actions on it. This manual contains important information about the following points:

- THE PERSONAL SAFETY OF THE OPERATOR
- PREVENT DAMAGE TO THE LIFTS
- PREVENT DAMAGE TO THE VEHICLE

2. HOW TO USE THIS MANUAL

The Manual forms part of the lift and must be available for reference in the immediate vicinity of the lift at all times. The operator of the lift must be able to refer to the Manual quickly and at any given moment.

IT IS STRONGLY RECOMMENDED THAT YOU SHOULD FIRST CAREFULLY READ THE SAFETY INSTRUCTIONS.

The manufacturer hereby refuses to accept any responsibility for injury to persons or damage to equipment or property if it appears that incorrect handling of the lift has taken place.
This instruction manual only describes the operating- and safety aspects which persons who are installing the machine need to know. In order to understand the terminology used in this manual, it is necessary that the person performing the installation work should have specific experience in industrial work, service, maintenance and repair activities, and must also possess the ability to explain the drawings and the descriptions contained in this manual to other people. At the same time he must also be aware of the general and specific safety regulations which apply in the country where the lift is being installed. The word “operator”, who has been used throughout this manual, refers to a person who is authorised to use the platform. The minimum legal age for using the lift is 18 years.

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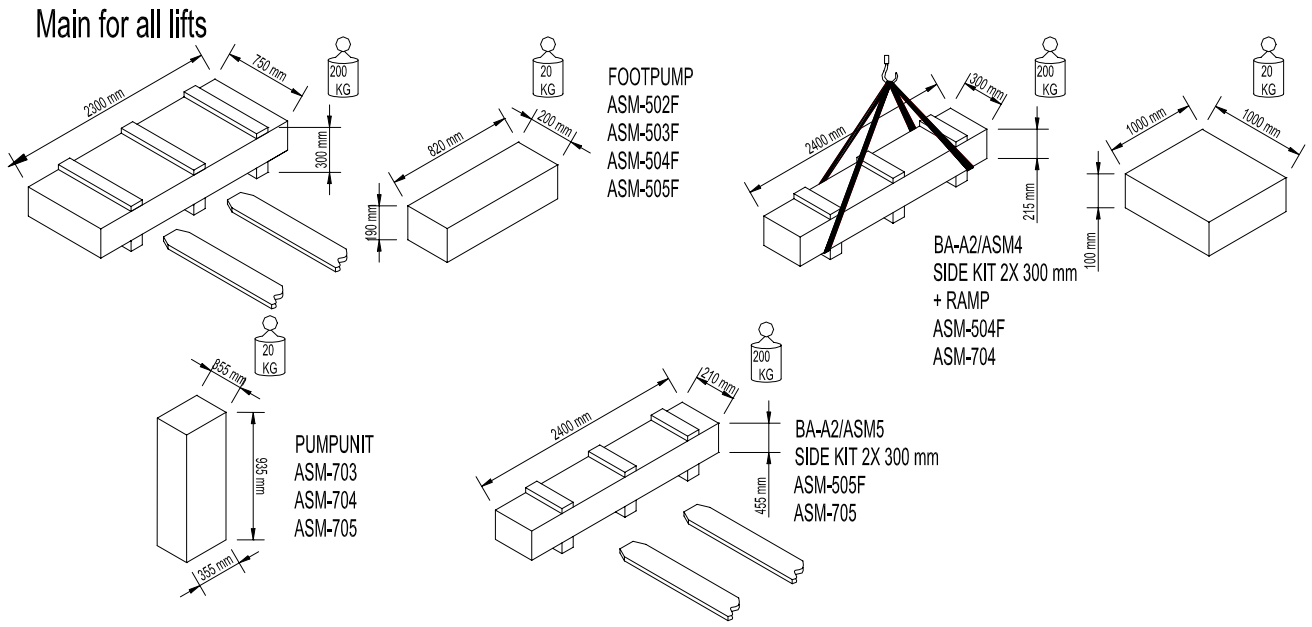

Fig.1

3. PACKING, TRANSPORT AND STORAGE

Every action involving the operation, trained personnel who have a proper knowledge of the lift, and who are familiar with the contents of this operating manual must only do transportation or unpacking of the equipment.

LIFTING AND MOVING THE PACKING

The wooden crates must be lifted and moved with the help of a fork lift truck or a lift crane. (Fig. 1)

The equipment chosen must be capable of lifting and moving the equipment safely, keeping in mind the dimensions of the vehicle, the weight, the centre of gravity and projecting and fragile parts.

STORAGE

The packed lift must always the placed in a covered area at a temperature between -10 °C and + 40 °C and must not be exposed to direct sunlight.

OPENING THE CRATES

Check whether the machine have been damaged during transportation, and whether all the components as mentioned in the packing list are physically present.

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4. DESCRIPTION OF THE LIFT (Fig.2)

The (electric) hydraulic lift model ASM-0502H, 0703H, 0704H, 0705H, are based on the ground and is designed and manufactured for lifting motorbikes or lawnmower and holding them in elevated position. The main parts of the lift are:

- welded base
- moving parts
- lifting parts
- lifting parts
- control part
- safety devices

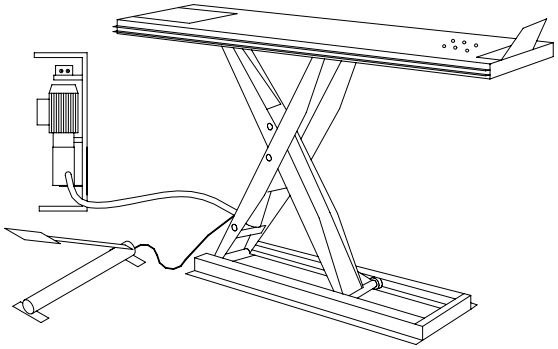

Fig.2

Fig.3: illustrates the parts making up the lift.

1. Front: the side across the drive-on side.
2. Rear: the drive-on side.

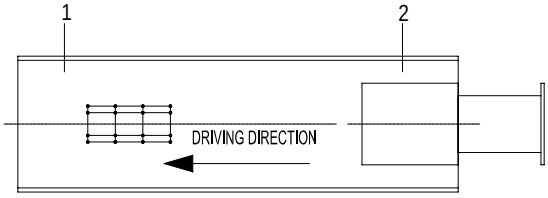

Fig.3

CONTROLS (Fig.4, 5)

The operation part of the lifts with the footpump contains:

1. Liftpedal
2. Descend pedal

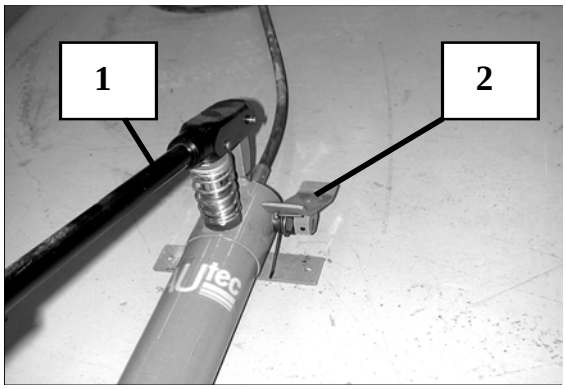

Fig.4

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The operating part of the lifts with the **powerunit** contains:

1. Main switch
2. Descend / lift button

Nieuw

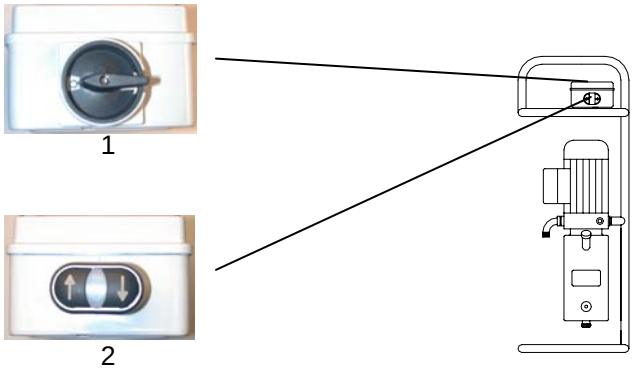

Fig.5

The control part consists of the following:
Oiltank, hydraulic pump, electric motor, a valve block and hydraulic hoses.

5. TECHNICAL SPECIFICATION

ASM-0502H	
LIFTING CAPACITY	500 kg
Lifting time	Variable
Descending time	Variable
Total weight	195 kg
Worktemperature	-10°C / +40°C
Working environment	Covered
Dimensions ASM-0502H	Fig.6

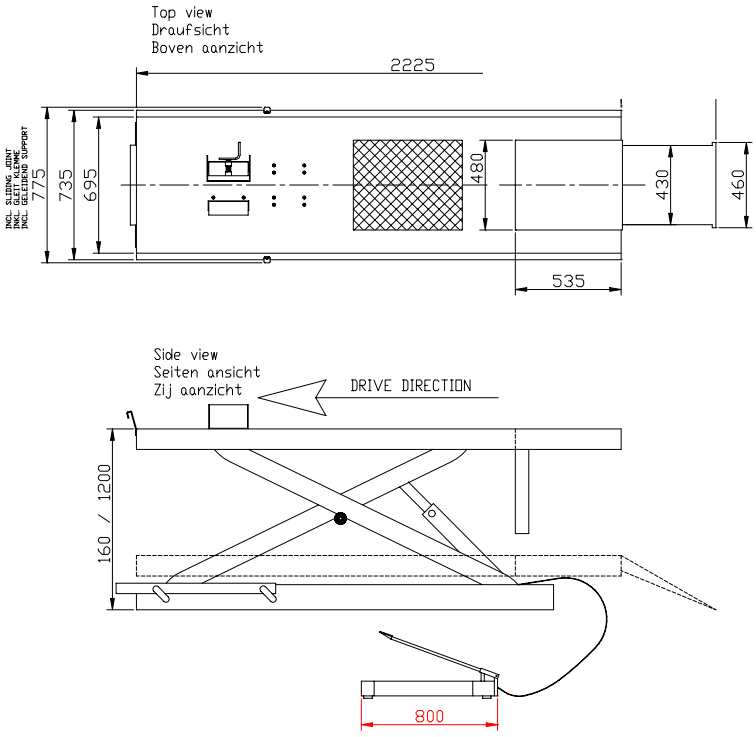

Fig.6

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ASM-0703H / 0704H / 0705H	
LIFTING CAPACITY	700 kg
Lifting time	50 sec
Descending time	50 sec
Total weight	195 kg
Worktemperature	-10ºC / +40ºC
Working environment	Covered
Dimensions ASM-0703H	Fig.6
Dimensions ASM-0704H	Fig.7
Dimensions ASM-0705H	Fig.8

ELECTRICMOTOR PUMPUNIT	
Motor power	0,75 kW
Voltage	230V(1-Ph). +/- 10%
Frequency	50 Hz
Amperage	230V: 6 A
No. of wires	3
Speed	2780 rpm

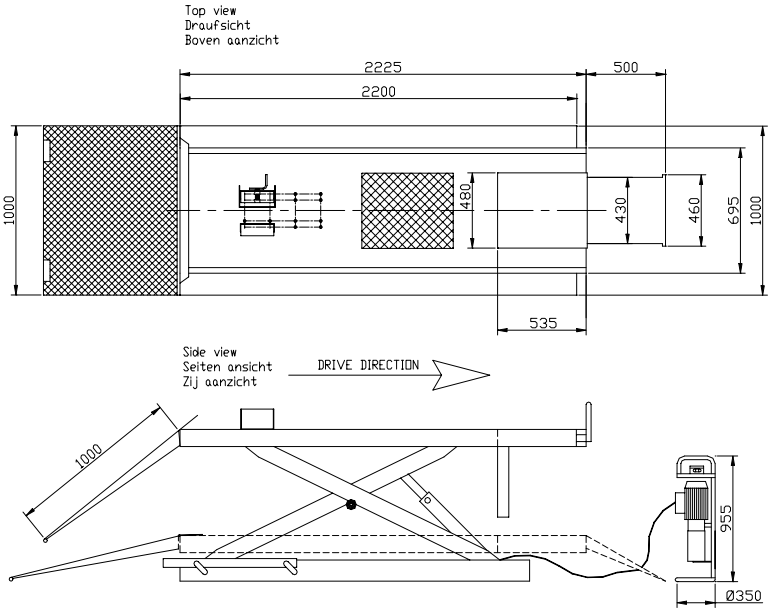

Fig.7

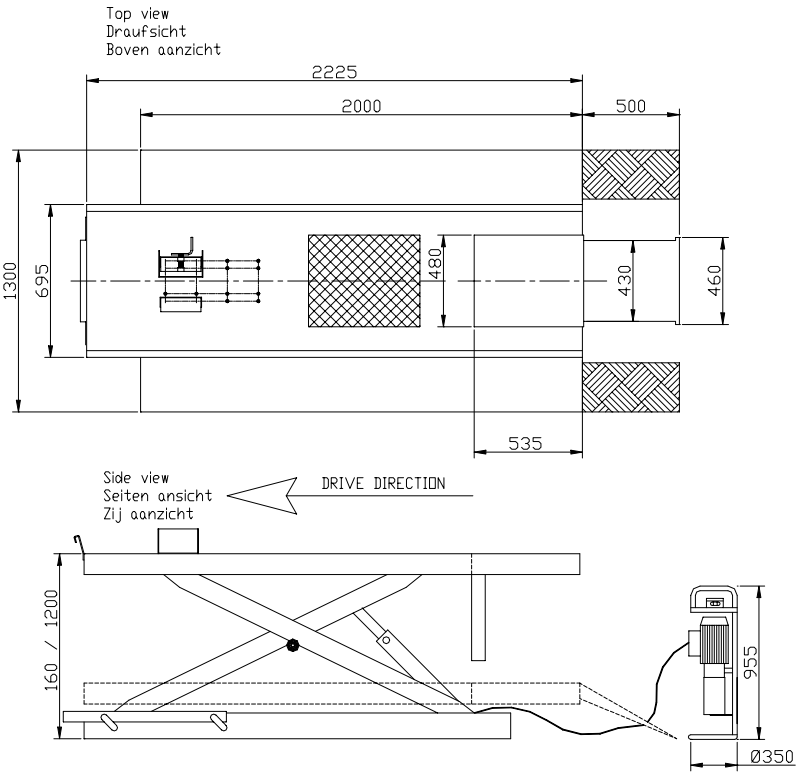

Fig.8

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THE WEIGHT OF THE VEHICLE
The lift can be used for practically all vehicles provided that the maximum loading capacity is not exceeded.

The safety zone (Fig. 10) is to some extending determined by the dimensions of the vehicle to be lifted.

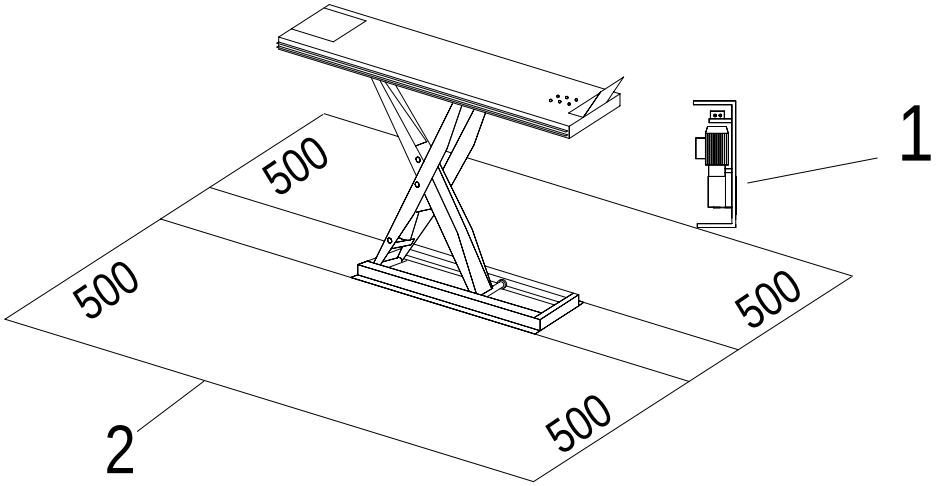

Fig.9

6. SAFETY

It is important to read point number 5 of this manual properly since it contains important information about the risks which the operator of the lift will be exposed to if the lift is not used properly. In what follows, you will find information about how to avoid dangerous situations.

WARNING.
The lift is designed and constructed to lift vehicles and to hold them in a certain position in a covered working place. Any other form of use is not permitted. In short, the lift is not suitable for the following purposes:

- Washing and spraying work.
- To be used as a device for applying force.
- To be used as a goods lift.

The manufacturer hereby refuses to entertain any claims for damages arising in connection with injury to persons or damage to vehicle or other property caused due to incorrect and/or unauthorised use of the lift.

During lifting- and lowering movements, the operator must be within the zone of operation (1), as shown in Fig. 9. The presence of any person in the safety zone (2) is strictly forbidden. The presence of persons under the vehicle is only permitted if the vehicle is parked in the lifted position.

USE THE LIFT ONLY IF ALL THE SAFETY ARRANGEMENTS ARE WORKING PROPERLY. IF THESE RULES ARE NOT FOLLOWED, SERIOUS INJURY COULD BE CAUSED TO PERSONS AS WELL AS IRREPARABLE DAMAGE TO THE LIFT AND THE VEHICLE ON THE LIFT.

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GENERAL PRECAUTIONS

- The operator is bound to follow the regulations, which apply in the country in which these lifts are installed.

In addition, the operator must:

- Always work in the operator area as designated in the Manual.
- Never remove the protective guards or dismantle or shut down the mechanical, electrical or other types of safety arrangements.
- Read the safety regulations relating to the lift and take cognisance of the safety information provided in this manual.

The following terms have been used in this manual to describe the various types of risk:

DANGER: there is a direct possibility of danger, which could lead to serious injury or death.

WARNING: this indicates situations and/or actions, which are unsafe and could lead to injuries of various types except death.

CAUTION: this indicates situations and/or actions, which are unsafe and could lead to light injuries to persons and/or damage to the lift, the vehicle or other properties.

RISK OF DAMAGE DUE TO ELECTRICITY: Special safety arrangements have been made on the lift in places where the risks are very high.

RISKS AND PROTECTIVE MEDIA
The risks to which the operator is exposed when the vehicle is in a raised position, together with the protective media which have been installed in order to limit the possible dangers.

WARNING

Do not move the vehicle when it is on the platform. The platforms and the rubber fittings should only be removed at the lowest lifting position, and when there is no load.

It is extremely important that the vehicle is placed on the lift in such a manner that there is a uniform distribution of weight over the platform.

For the safety of the persons and material be ensured that:

The safetyzone is observed during lifting and descending.

SAFETY DEVICES
The following safety devices are mounted to prevent damage or injuries:
- Safety pressure valve protects against excessive pressure
- Mechanical locking prevents descending in case of hose fracture
- Thermal safety devices protect the motor in case of overload
- A wheelclamp stabilises the motorbike during maintenance of the motorbike.

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RISKS TO PERSONS

This paragraph describes the risks to which the operator or any other person near the working area where the lift is in operation, in case the lift is not used in the appropriate manner.

Never rest any fittings or other objects against the platform and never place such objects under the platform when it has a load mounted on it, since this can impede the lowering operations and may cause the vehicle to fall off the platform

RISKS RELATED TO INAPPROPRIATE LIGHTING

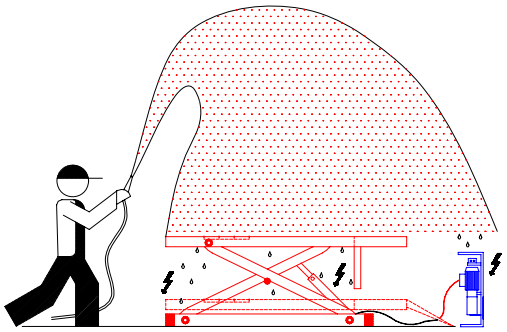
The operator and the maintenance fitter must be able to assure that all the areas of the lift are properly and uniformly illuminated in compliance with the laws in force in the place of installation.

RISK OF COMPONENT FAILURE DURING OPERATION

Autec has used appropriate materials and construction techniques in relation to the specified use of the machine in order to manufacture a reliable and safe lift. Note however, that the lift must be used in conformity with manufactures prescriptions and the frequency of inspections and maintenance work.

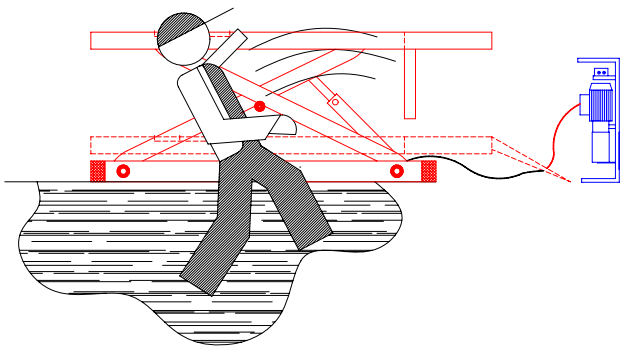
RISK OF ELECTROCUTION

Never spray water or steam or solvents or paint in the area immediately surrounding the platform and the control cabinet



RISK OF SLIDING OUT

This risk can be overcome by avoiding the spillage of oil or grease in the area surrounding the lift. Apart from that, any oil spillage, which may occur, should be thoroughly removed from the spot.



! **KEEP THE AREA UNDER AND AROUND THE LIFT CLEAN. REMOVE ALL OIL SPILLS.**

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PERSONNEL CRUSHING RISK

When lowering runways and vehicles, personnel must not be within the area covered by the lowering trajectory. The operator must be sure no one is in danger before operating the lift

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7. INSTALLATION

The lift must be installed taking into account the dimensions of other objects, and the minimum distance from the walls should be 500 mm.

- Minimum working area of 500 mm
- Sufficient room for operations
- Sufficient room for carrying out maintenance, as well as access- and exit-routes.
- Position in relation to other machines
- The lift must be installed near a power supply point, to enable problem-free power connection

LIFTING
The lifts must be adequately and uniformly lighted.

FLOOR
The lift must be installed on a horizontal, flat, and sufficiently sturdy floor, with a minimum strength of 30N/mm².

The lift should only be shifted or installed using suitable lifting equipment having the required capacity. Method of working:

1. Carefully remove the packing

2. Place the lift on the selected place of installation. While doing this, pay particular attention to the car-uploading direction. While moving the lift, always grip it on the bottom surface of the base frame.

3. Take steps to prevent the entry of dirt into the hydraulic hose.

4. Lift the vehicle-uploading track to a height of about 800-mm with the help of lifting equipment. Now place a piece of wood (**fig. 10**) between the scissors 'legs' so as to prevent the lift from falling back.

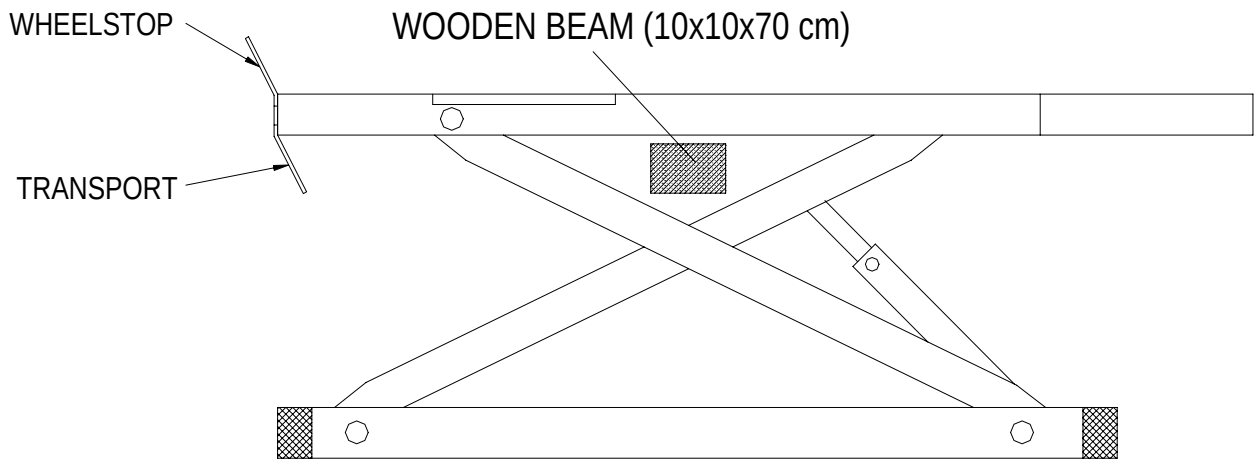

Fig.10

5. De-mount the wheelstop and mount it in the right position. Use two spanners of 13 mm.

6. Remount the footplate as show in **fig. 11**. Nut (A) must be mounted a little loose so that brakeplate stay movable. Nut (B) and (C) may be fastening.

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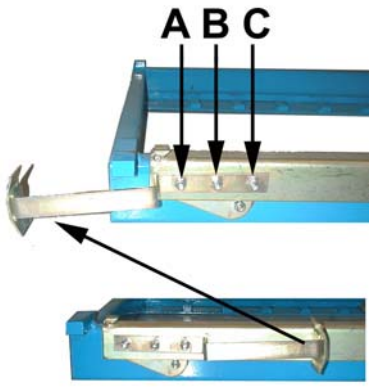

Fig.11

CONNECTING FOOT PUMP

7 Install the hydraulic hose on the foot pump.
8 Fit the other end of the hose on the cylinder of the lift.
9 Replace the stopper plug of the foot pump with a plastic airing screw.

AIRING THE SYSTEM

Raise and lower the lift a number of times using the lifting-/ lowering-motion buttons. The lift will now get aired automatically.

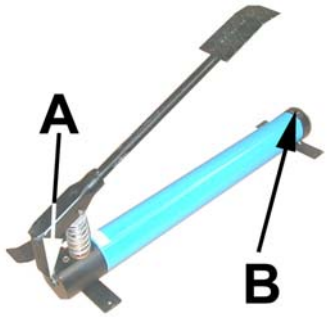

Fig. 13

CONNECTING PUMPUNIT

10 Connect the hydraulic hose to the valve block.

11 Fill the oil tank with around 5 litres of hydraulic oil which must satisfy the requirements of ISO 6743/4 standards, For example:

Texaco: Rando 32,
Shell: Tellus 32,
Esso: Nuto H32,
Castrol: HYSPIN HWS 32,
Fina: Hydran TS32, or a similar oil.

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AIRING THE SYSTEM (see fig. 13)

12 Open the airing valve on the cylinder to a small extent.
13 Put the key/mainswitch (1) in the on position.
14 Now put button 2 in the lifting position. Hold the button in this position until bubble-free oil emerges from the valve.
15 Again tighten the valve. Raise the lift to its highest position and again release the airing valve, and air the system until the oil comes out of the valve without any air. Again close the valve tightly.
16 Lower the lift (3) once again to its lowest position, and check the level of oil in the oil tank. If necessary, top it up.

fig. 13

Extra installation information for the lifts (BA-A2/ASM4)

The following parts must be mounted:

- Two side buildon pieces 150mm.
- Ramp
- Wheelstop

17. Raise the lift in a high level is easy to mount the parts.
18. De-mount the wheelstop by loosen three bolts.
19. Mount at the end sides the wheelstop bracket. By using two bolts of the de-mounted wheelstop.
20. Slide the two side buildon pieces into the rail.
21. Place the ramp by using the three washers and nuts of the de-mounted wheelstop.

Extra installation information for the lifts (BA-A2/ASM5)

The following parts must be mounted:

- Two side buildon pieces 300 mm

22. Raise the lift in a high level is easy to mount the parts.
23. Slide the two side buildon pieces into the rail.

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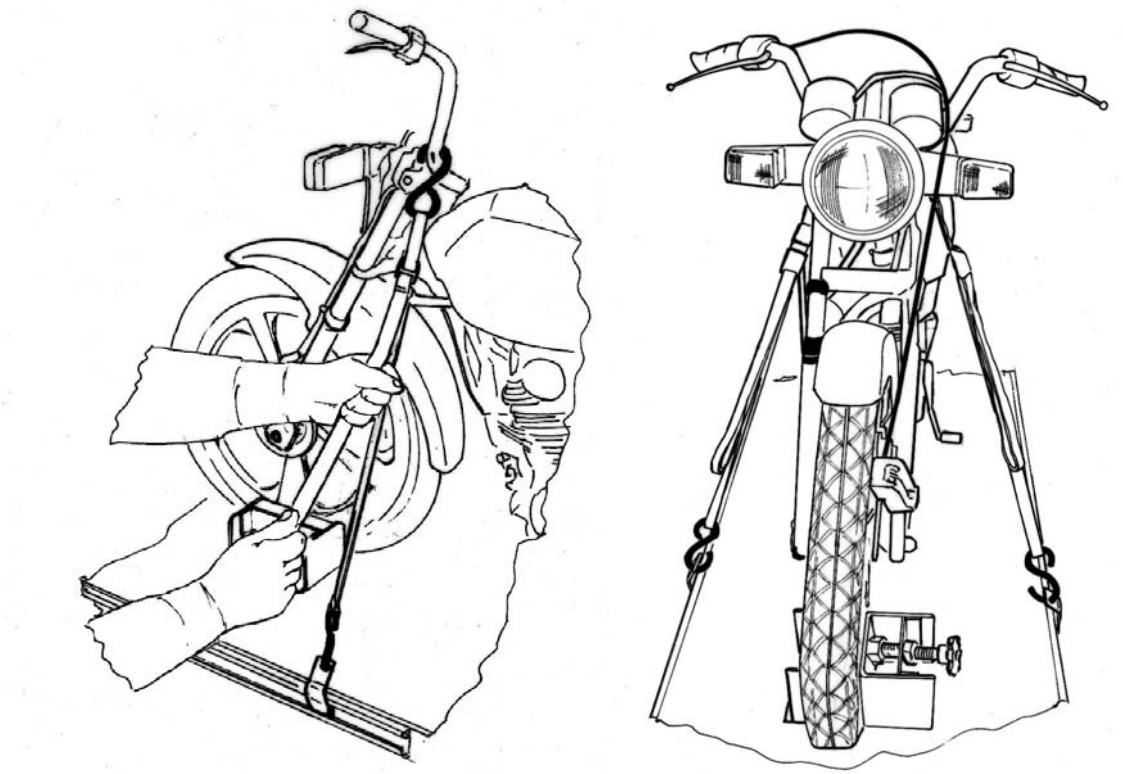
8. OPERATION / USE

VEHICLE POSITIONING

1. Check whether the lift is in its lowest position.
2. Move the motor cycle slowly and carefully onto the lift until the desired position is reach.
3. Put the motor cycle on its stand.
4. Place the wheel lock and fix it firmly in place.
5. Fix the tensioning belts on the edge of the vehicle-uploading plate and onto the motor cycle.

CLAMPING IS MADE CORRECTLY ONLY IF THE HANDLEBAR IS HOOKED PROPERLY BY PREVENTING HOOKS FROM SLIDING FROM THE CLAMPING STRAPS.



BEFORE RAISING THE LIFT, BE SURE THE STRAPS ARE FASTENED.

N.B.

IF LIFTING MOTION HAS BEEN ALREADY CARRIED OUT AND THE MOTORCYCLE IS NOT PROPERLY ANCHORED, LOWER THE LIFT, FASTEN BELTS PROPERLY AND CARRY OUT LIFTING MOTION AGAIN.

MOTORCYCLE LIFTING WITHOUT SAFETY STRAPS IS STRICTLY FORBIDDEN

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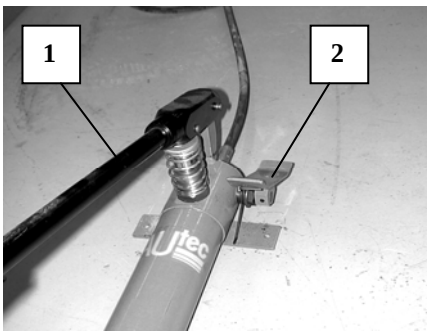
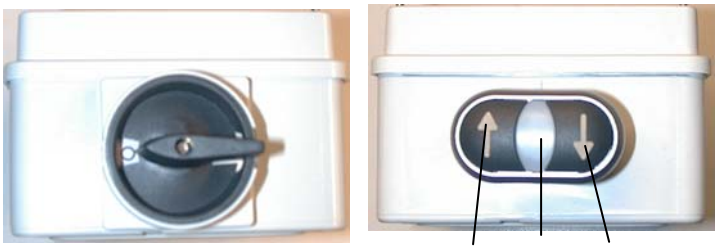


Fig.14

LIFTING (Fig. 14)
Raise the lift by operating the foot pedal (1). Keep pumping the foot pedal until the locking cam has been pushed over the safety guard. Now lower the lift into the interlock by operating the downward-motion pedal.

LOWERING (Fig. 14)
Lift the lift a little in order to release it from the lock. Unlock the anti-fallback interlock by hand. Lower the lift by operating the pedal (2).



1. **Mainswitch;** A key/mainswitch to set power on your system.

2. **Voltage monitoring system;** A lamp where you can see if there is power on the system.

3. **Lowering button;** With this button you can lower the lift.

4. **Lifting button;** with this button you can lifting the lift.

LIFTING
1. Put the key/mainswitch (1) in the on position.
2. Place the button (4) in the lifting position, and hold the button in this position until the desired position is reached.
3. Now turn the button (3) in the interlocking position. Hold the button in this position until the lift falls into it's locking position. Now release the button.

LOWERING
1. Put the key/mainswitch (1) in the on position.
2. Push the button (4) in the lifting position.
3. The lift must now be raised a little in order to be released from it's interlocked position.
4. When the lift has been lowered fully, push button (3) in the lowering position.
5. Remove the tensioning belts and the wheel lock. Thereafter take the motorcycle carefully off the lift.

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9. MAINTENANCE

ONLY TRAINED PERSONNEL WHO KNOW HOW THE LIFT WORKS, MUST BE ALLOWED TO SERVICE THE LIFT

To service properly the lift, the following has to be carried out:

- use only genuine spare parts as well as equipment suitable for the work required
- follow the scheduled maintenance and check periods shown in the manual
- Discover the reason for possible failures such as too much noise, overheating, oil blow-by, etc.
- Refer to documents supplied by the dealer to carry out maintenance:
- functional drawing of the electric and hydraulic equipment
- exploded views with all data necessary for spare parts ordering
- List of possible faults and relevant solutions.

- Spray the guides for the sliding blocks on the underside of the vehicle-uploading plate with teflonspray once every month.

- Replace the hydraulic oil at least once every 5 years

The lift has to be properly cleaned at least one a month. Use self-cleaning clothes.

THE USE OF WATER OR INFLAMMABLE LIQUID IS STRICTLY FORBIDDEN.

Be sure the rod of the hydraulic cylinders is always clean and not damaged since this may result in leakage from seals and, as a consequence, in possible malfunctions.

Periodic maintenance

Every 3 months	Hydraulic circuit	- check oil tank level; refill with oil, if needed; - check the circuit for oil leakage. Check seals for proper conditions and replaces them, if necessary.
	Foundation bolts:	- check bolts for proper tightening
	Hydraulic pump	- verify that no noise changes take place in the pump of the control desk when running and check fixing bolts for proper tightening
	Safety system	- check safety devices for proper operation
Every 6 months	Oil:	Check oil for contamination or ageing. Contaminated oil is the main reason for failure of valves and shorter life of gears pumps
Every 12 months	General check:	- verify that all components and mechanisms are not damaged.
	Electrical system:	- a check of the electrical system to verify that control desk motor, limit switches and control panel operate properly must be carried out by skilled electricians.

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10. TROUBLE SHOOTING

Detection and repairs of faults if any should only be done subject to the condition that all the relevant SAFETY REGULATIONS as described are followed strictly.

ALL “RESETTING” ACTIONS, REPAIR, TO THE SAFETY ARRANGEMENTS AND THE ELECTRICAL CONTROLLERS OF THE LIFTS SHOULD BE CARRIED OUT BY AUTHORISED PERSONNEL.

PROBLEMS	POSSIBLE REASONS	REMEDIAL ACTION
• The lift does not rise when the lifting button is pressed.	• The main switch is off • The fuse is burnt out • The lift is heavily overloaded • The switch is not working • Fault in the electrical system • Too little hydraulic oil • The suction pump is soiled	• Switch on the main switch • Replace the fuse. • Main the maximum weights according to the specifications. • Replace the switch, and call Autec • Call Autec for service • Fill in hydraulic oil • Clean the suction pump
• The lift does not rise	• The overpressure valve has not been properly adjusted. • The lift is heavily overloaded • The voltage is too low • Too little hydraulic oil • The suction pump is soiled	• Set the over pressure valve. Call Autec • Maintain the maximum weight according to specifications • Check the voltage. • Fill in hydraulic oil • Clean the suction pump
• The lift does not come down although the lowering button is pressed.	• There is a foreign object under the lifting table • Fault in electrical system • The lowering-motion button is dirty • The lock is not unlocking • The downward-motion valve is not working properly	• Remove the foreign object • Call Autec for service • Replace the lowering-motion button • Call Autec for service • Call Autec for service
• The lift goes down in jerks • The lift keeps sliding back	• There is air in the hydraulic system • There is a leakage in hydraulic system • The hydraulic cylinder is soiled • The non return valve is leaking	• Air the system. • Call Autec for service • Call Autec for service • Call Autec for service

SPARE ORDERING / REPAIR PROCEDURE

To order the spare parts it is necessary to:

- indicate the lift serial number and the year of manufacturing

For spare parts we refer to the TIB-pages available on request.

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11. CONFORMITY

AUTEC Hefbruggen b.v.
Vlasakker 11
NL 3417 XT Montfoort
The Netherlands

Declares the following lift models:

ASM-0502H
ASM-0703H
ASM-0704H
ASM-0705H

confirm to CE directives: 89/392 EEC, 91/368/EEC, 93/44 EEC, 93/68 EEC 91/368 89/336 73/23 CEE

and EU-directives: EN 291/1992, EN 292/1992, EN 60204

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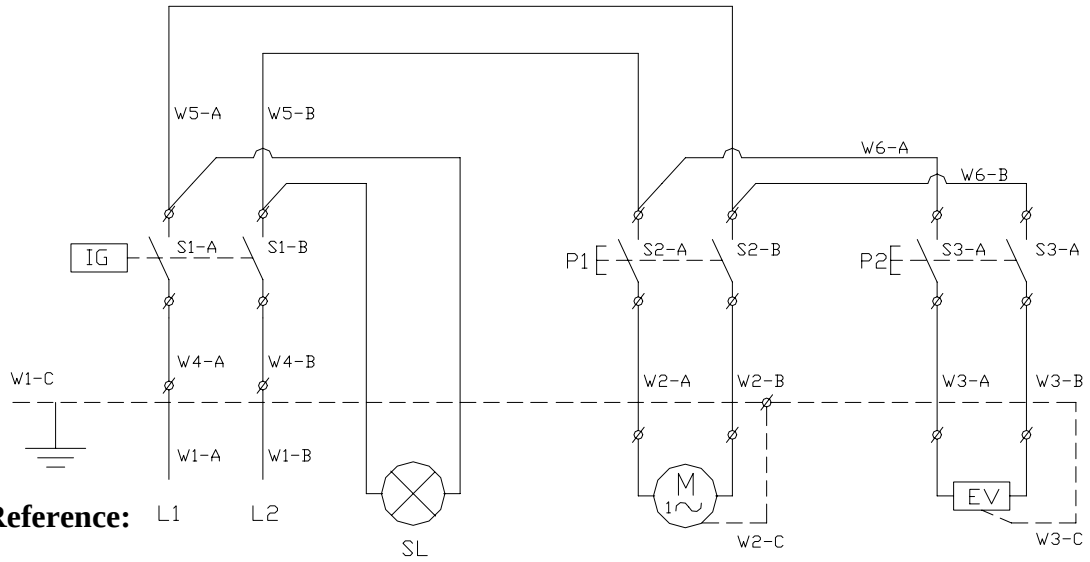
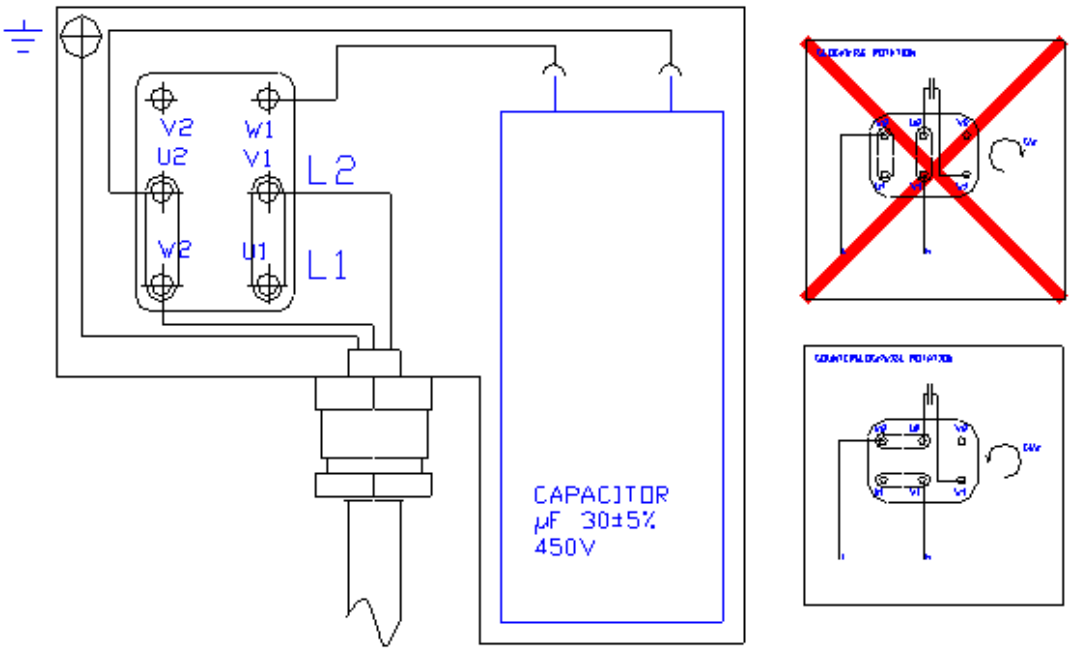
Powerunit Wiring skeleton Controlbox



Reference: L1 L2

CODE	DESCRIPTION
IG	MAIN SWITCH
L1/L2	230 V ~
SL	SIGNAL LAMP 230V
M	ELEC. MOTOR 230 1PH
P1/P2	PUSH BUTTONS
EV	ELEC. VALVE

Powerunit Wiring skeleton



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